AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-5 (Canceled).

6. (*Currently amended*) A device for damping oscillations of a combustion chamber comprising:

at least one resonator <u>structured and arranged to dampen vibrations being</u> connected to a pre-chamber in a vibration-damping manner,

wherein the pre-chamber is connected to [[a]] the combustion chamber in a vibration-damping manner to dampen vibrations via at least one passage channel.

- 7. (*Previously presented*) The device of claim 6, wherein the combustion chamber adjoins an injection head having at least one injection element.
- 8. (*Previously presented*) The device of claim 7, wherein the injection head conducts a fuel flow into the combustion chamber.
- 9. (*Previously presented*) The device of claim 8, wherein the pre-chamber is arranged upstream of the at least one injection element.

- 10. (*Previously presented*) The device of claim 8, wherein the pre-chamber is arranged an area of the at least one injection element.
- 11. (*Previously presented*) The device of claim 6, wherein the pre-chamber is in fluid connection with a fuel flow.
- 12. (*Previously presented*) The device of claim 6, wherein the at least one passage channel is part of an injection element.
- 13. (*Previously presented*) The device of claim 6, wherein the combustion chamber is part of a rocket engine.
 - 14. (*Previously presented*) A system for damping oscillations, the system comprising: a combustion chamber;

an injection head arranged upstream of the combustion chamber;

a pre-chamber arranged upstream of the injection head; and

at least one resonator structured and arranged to dampen vibrations of the combustion chamber and comprising one of:

an opening communicating with the pre-chamber; and an opening communicating with an open area of the injection head.

15. (*Previously presented*) The system of claim 14, wherein the combustion chamber comprises an outlet arranged opposite the injection head.

- 16. (*Previously presented*) The system of claim 14, wherein the opening communicating with the pre-chamber comprises a circumferential opening.
- 17. (*Previously presented*) The system of claim 14, wherein the at least one resonator is annular shaped.
- 18. (*Previously presented*) The system of claim 14, wherein the at least one resonator comprises a sleeve which extends into the open area of the injection head.
- 19. (*Previously presented*) The system of claim 14, wherein the at least one resonator comprises a sleeve oriented along a direction of gas flow and which extends into the open area of the injection head.
- 20. (*Previously presented*) The system of claim 14, wherein the at least one resonator comprises a plurality of sleeves at least one of oriented along a direction of gas flow and extending into the open area of the injection head.
- 21. (*Previously presented*) The system of claim 14, wherein the at least one resonator comprises a radially oriented opening communicating with the pre-chamber.
- 22. (*Previously presented*) The system of claim 14, wherein the at least one resonator comprises a plurality of radially oriented openings communicating with the pre-chamber.

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23. (*Previously presented*) The system of claim 14, wherein the at least one resonator comprises a radially oriented opening communicating with the open area of the injection head.

24. (*Previously presented*) The system of claim 14, wherein the at least one resonator is one of:

integrally formed in a side wall of the pre-chamber; integrally formed in an end wall of the pre-chamber; and integrally formed in a side wall of the injection head.

25. (*Previously presented*) A system for damping oscillations of a rocket engine, the system comprising:

a combustion chamber;

an injection head arranged upstream of the combustion chamber;

a pre-chamber arranged upstream of the injection head; and

at least one resonator structured and arranged to dampen vibrations of the combustion chamber and comprising one of:

an opening communicating with the pre-chamber; and an opening communicating with an open area of the injection head.